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SOURCE GOST 2084-46,

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USSR STANDARD FOR AUTOMOBILE GASOLINE (GOST 2084-46)

(Petroleum Industry B 21)

1. This standard applies to gasoline used as fuel for carburetor auto-  
mobile engines.

2. Automobile gasoline must satisfy the following requirements:

<u>Physicochemical Properties</u>	<u>Values</u>	<u>Test Method</u>
1. Fractional composition		
a. 10% distills off below	85° C	
b. 50% distills off below	150° C	GOST 2177-43
c. 90% distills off below	210° C	
d. End point, not above	225° C	
e. Residue in retort, not over	1.5%	
f. Residue plus loss, no. over	3.0%	
2. Reid vapor pressure	375 mm Hg	GOST 1756-42
3. Gum content per 100 ml of gaso- line, not over	10 mg	GOST 1567-43
4. Induction period, not less than	240 min	GOST 17872-39, M.I. 24v
5. Sulfur content, not over	0.15%	GOST 1771-42
6. Copper-plate test	Passes	GOST NKTP 7872/2292, M.I. 23z 37

- 1 -

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<u>Physicochemical Properties</u>	<u>Values</u>	<u>Test Method</u>
7. Content of water-soluble acids and alkalies	None	OST NKTP 7872/2292, M.I. 25e 37
9. Content of mechanical impurities and water	None	Gasoline poured into a glass cylinder 40-50 mm in diameter must be transparent and free of suspended and precipitated foreign matter, and of water

- NOTE: 1. For refineries delivering nonstabilized gasoline: A distillation residue and loss not exceeding 5.5% is allowed; Reid vapor pressure is not standardized.
- ii. In gasoline manufactured from sulfur-containing petroleum, a sulfur content not exceeding 0.6% is allowed.
- iii. At points where gasoline is delivered to customers (oil bases) there is allowed an increased gum content up to 20 mg/100 ml. Gasoline, a 2° excess in temperatures throughout fractional distillation, and a 3° excess at the boiling end-point, as well as an additional 0.3% of residue in the retort.
- iv. The induction period is determined at the point of manufacture.
- v. Storage limit for inhibited gasoline not to exceed 6 months from the time of production.
- vi. For straight-run gasolines and for mixtures of straight-run and cracking gasoline, distillation temperature of the 10% fraction is not standardized; instead, a minimum of 20% is required for fractions distilling off below 100° C.
- vii. In straight-run gasolines, the gum content and induction period are not checked.
3. Packing, marking, handling, storage, and inspection of automobile gasoline are carried out as prescribed by GOST 1510-45.
4. Sampling of automobile gasoline is performed as prescribed by GOST 2517-44. The test sample consists of 2 liters of gasoline.

Proposed by the People's Commissariat of Petroleum Industry and the Main Administration for Supply of Petroleum Products under the Council of the People's Commissars USSR.

Approved by Decree of the Council of People's Commissars USSR, 25 January 1946, No 184.

Effective January 1946.

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- 2 -

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